DOE Technical Assistance Program





Advanced Topics for the Portfolio Manager Initiative: Energy Disclosure Policy Implementation

December 20, 2011

Joel Blaine, DOE

DOE in collaboration with the Institute for Market Transformation



This presentation is brought to you by DOE's Technical Assistance Program (TAP) in collaboration with The Institute for Market Transformation (IMT).

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Advanced Topics for the Portfolio Manager Initiative:

Energy Disclosure Policy Implementation

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What is rating and disclosure?







Why would you do it? What are the benefits?

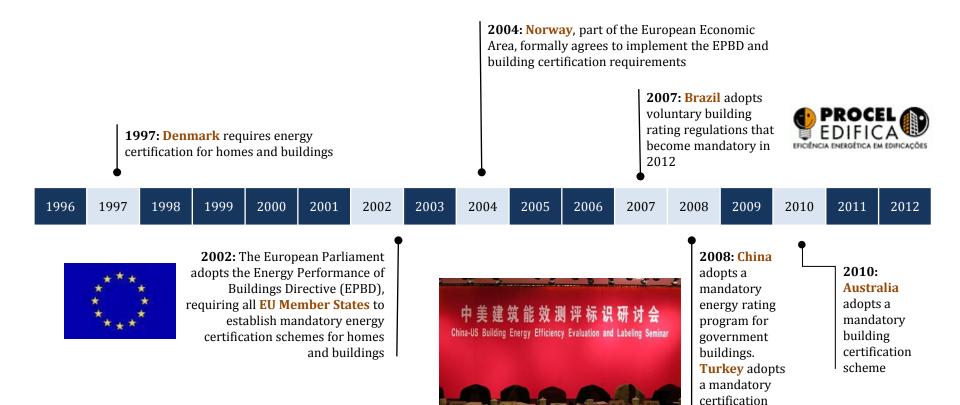
"When performance is measured, performance improves. When performance is measured and reported back, the rate of improvement accelerates."

-Thomas S. Monson



Where is it happening? Around the World.

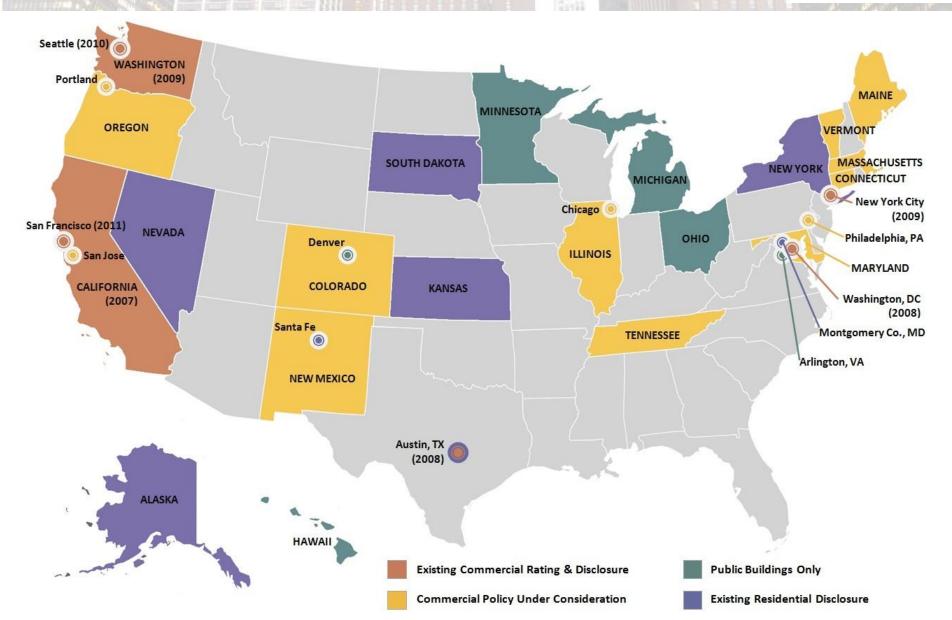




scheme

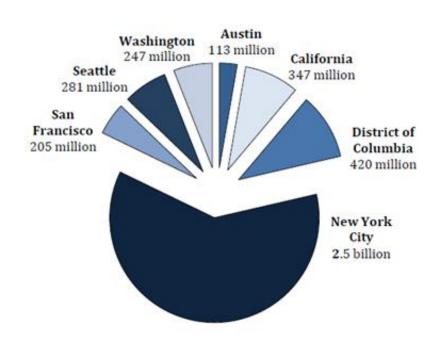
And, more recently, in the United States





Policy impact is already significant





Austin Washington 2,800 bldgs 4,600 bldgs California Seattle 13,600 bldgs 9,000 bldgs San District of Francisco Columbia 2,700 bldgs 1,900 bldgs New York City 26,000 bldgs

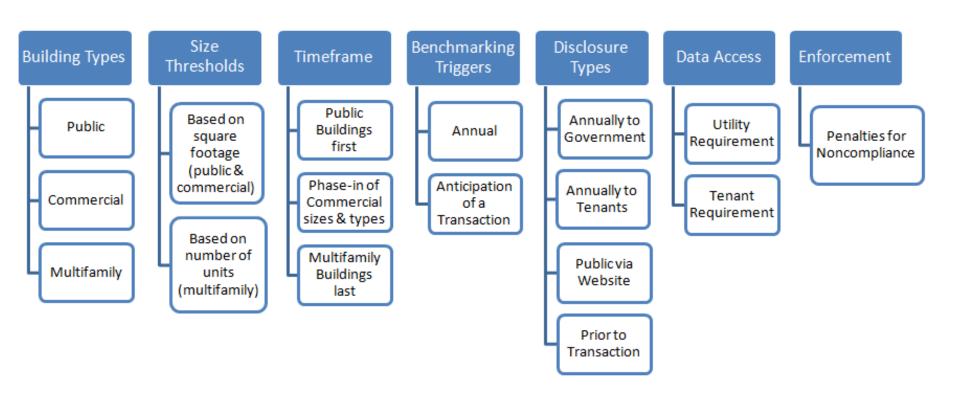
Annual Policy Impact Projection on Building Area (in Square Feet) by Jurisdiction

Annual Policy Impact Projection on Number of Buildings by Jurisdiction

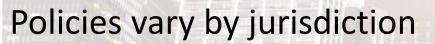
- Approximately 4 billion square feet
- More than 3x the floor area of every Walmart, Target, Home Depot, Barnes & Noble and Costco store in America

Rating & disclosure policy elements





IMT is finalizing a new **Model Legislation and Policy Development Guide** for rating and disclosure – please email caroline@imt.org if you'd like to be sent a copy when available (late December/early January)





All U.S. policies leverage the ENERGY STAR Portfolio Manager tool

Jurisdiction		narking pe and Size)	Disclosure					
	Non- Mult		On public	To local	То	To transactional counterparties		
	residential	family	web site	government	tenants	Sale	Lease	Financing
Austin	10k SF+	-	-	✓	-	✓	-	-
California*	1k SF+	-	-	✓	-	✓	✓	✓
District of Columbia	50k SF+	50k SF+	✓	✓	-	-	-	-
New York City	50k SF+	50k SF+	✓	✓	-	-	-	-
San Francisco	10k SF+	-	✓	✓	✓	-	-	-
Seattle	10k SF+	5+ units	-	✓	✓	✓	✓	✓
Washington	10k SF+	-	-	-	-	✓	✓	✓

Implementation Roundtable



Roundtable on Implementing Benchmarking & Disclosure Policy

- Nov. 2010 in Washington, DC
- Nation's first event on policy implementation assessing policy implementation challenges, best practices and opportunities for harmonization
- Attendees included:
 - Austin Energy
 - California Energy Commission
 - California Public Utilities Commission
 - District of Columbia Department of the Environment
 - Maryland Energy Administration
 - Massachusetts Dept. of Energy Resources
 - New York City Mayor's Office of Long-Term Planning & Sustainability
 - Pacific Northwest National Laboratory
 - Portland Bureau of Planning and Sustainability
 - San Francisco Dept. of the Environment
 - Seattle Dept. of Planning & Development
 - Washington State Dept. of General Administration
 - U.S. Environmental Protection Agency, ENERGY STAR division

- ACEEE
- ICLEI Local Governments for Sustainability
- U.S. Green Building Council
- Northeast Energy Efficiency Partnerships
- Heschong-Mahone Group
- New Buildings Institute
- Transwestern
- Sustainable Energy Partnerships
- Resource Media

The Resulting Report

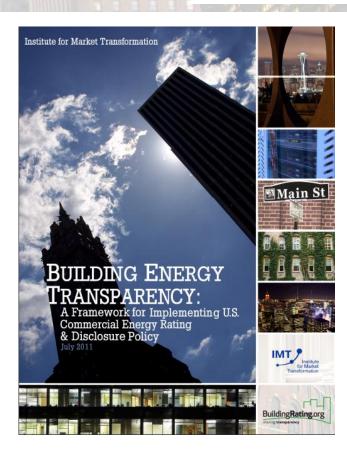


Building Energy Transparency:

A Framework for Implementing U.S. Commercial Energy Rating & Disclosure Policy

Challenges and Best Practices of Implementation in 6 key areas:

- Outreach, Education and Training
- Benchmarking Guidance
- Compliance and Enforcement
- Data Quality Assurance
- Energy Consumption Data
- Disclosure







Mission:

- Improve, enhance, and preserve the environment
- Promote San Francisco's long-term well being

Green Building

Policy Incentives Technical Assistance Outreach

Municipal

Commercial

Residential







Mayor's Task Force on

Existing
Commercial
Buildings

Final Report and Recommendations For The City and County of San Francisco

December 2009







Scope

-Existing Commercial

Composition

- –Owners'
 Representatives
- -Property Managers
- -Contractors
- –Operators
- -Engineers
- -Architects
- -Finance
- -Utilities

The Task

- –Cost effective energy savings
- -Minimum costs
- -Measureable



Existing Commercial Buildings:

Recommended Strategy

- Identify potential savings
- Enable informed decisions
- Engage tenants
- Lead by example in public facilities
- Access to capital
- Educate and mentor
- Submetering



Existing Commercial Buildings Energy Performance Ordinance

Passage of	2011	2012	2013	2014
Ordinance	(October 1)	(April 1)	(April 1)	(April 1)
Outreach Early action	Benchmark >50K sq ft ¹	Benchmark >25K sq ft [Disclose >50K sq ft]	Benchmark >10K sq ft [Disclose >25K sq ft]	Continue benchmarking [Disclose >10K sq ft]

¹ First year data is confidential

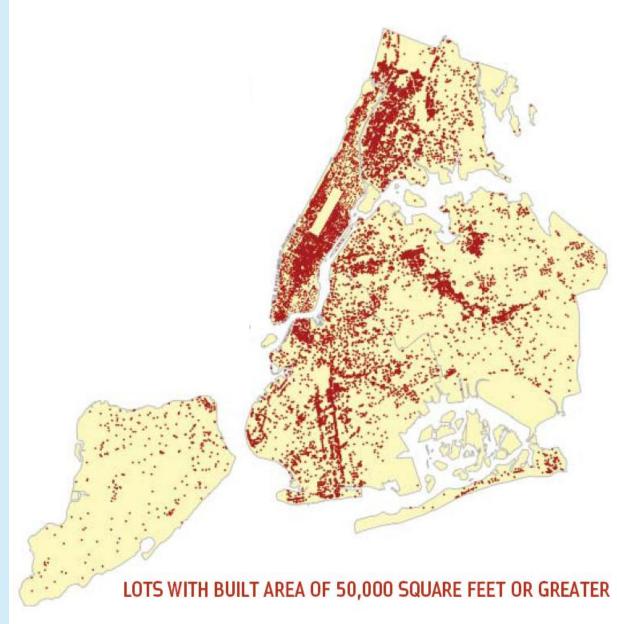
Tackling the Existing Building Sector



THE NEW YORK CITY

GREENER, GREATER BUILDINGS PLAN

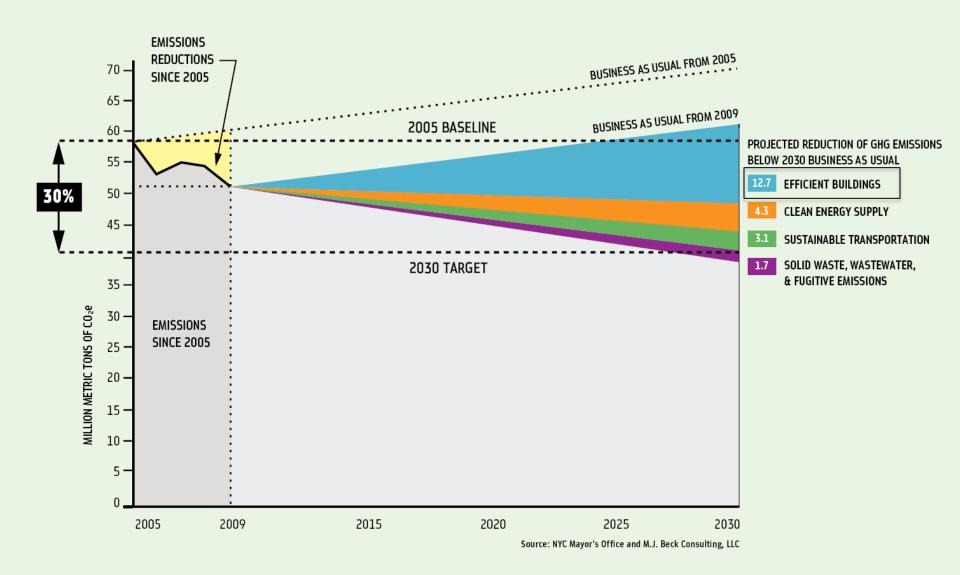
- New York City Energy Code
- 2 Lighting Upgrades and Sub-Metering
- **3** Benchmarking
- Audits and Retro-Commissioning



30% Reduction in Greenhouse Gases by 2030



Projected Impacts of Our Greenhouse Gas Reduction Strategies



Focus on large buildings



Total Building Area by Building (Lot) Size

	All Buildings		Buildings	>= 25,000 sf	Buildings >= 50,000 sf		
Туре	Lots	Bldg Area	Lots	Bldg Area	Lots	Bldg Area	
Residential	748,661	3,564,219,392	16,381	1,655,467,445	9,384	1,402,209,618	
Commercial	32,638	865,940,624	3,724	708,491,558	2,229	656,793,149	
Industrial	12,665	333,482,361	2,610	251,677,947	1,309	206,732,698	
Institutional	10,320	425,582,946	2,862	370,632,355	1,884	335,610,234	
Public	630	68,290,399	188	63,934,298	108	61,095,082	
Total	804,914	5,257,515,722	25,765	3,050,203,603	14,914	2,662,440,781	

Percent of Total Building Are by Building Size

Type

Total

Residential Commercial Industrial Institutional Public

All Buildings		Buildings	s >= 25,000 sf	Buildings >= 50,000 sf		
Bldg Area		Lots Bldg Area		Lots	Bldg Area	
1%	67.8%	2.04%	31.5%	1.17%	26.7%	
5%	16.5%	0.46%	13.5%	0.28%	12.5%	
7%	6.3%	0.32%	4.8%	0.16%	3.9%	
8%	8.1%	0.36%	7.0%	0.23%	6.4%	
8%	1.3%	0.02%	1.2%	0.01%	1.2%	
0%	100.0%	3.20%	58.0%	1.85%	50.6%	

NYC has over 800,000 building lots containing almost a million buildings

...but over half of that area is housed in less than 2% of the lots

Benchmarking – LL 84



Why Benchmark?

- Transparency
- Conservation
- Market Transformation

Requirements

- All buildings over 50,000 square feet
- Annually submit energy and water consumption using EPA's Portfolio Manager

Public Disclosure

- September 1, 2011 City government buildings
- September 1, 2012 Non-residential buildings
- September 1, 2013 Residential buildings

Benchmarking Resources



Resources

- Weekly 3-hours classes*
- Online trainings
- Step-by-step instructions (Checklist)
- Benchmarking Help Center* (call-in hotline)
- Step-by-step and FAQ on whole building electricity data

Partners

- Assoc for Energy Affordability
- EPA
- Urban Green Council and the Related Companies
- CUNY graduate students
- Con Edison providing whole building energy data

Current Status



Benchmarking – LL84

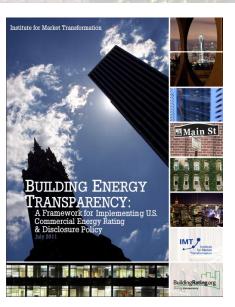
- All City-owned buildings have been benchmarked for the second year. Includes 2730 buildings and 260 million square feet.
- Scores and EUI's for City-owned buildings are publically posted;
 Report recently released:
 - http://www.nyc.gov/html/dem/downloads/pdf/Benchmarking%20Report%2011-23-11.pdf
- Private sector buildings have submitted for the first time with approximately 67% compliance and 1.5 billion sf. of space; Second deadline Dec. 31
- Working with university partners to analyze the data

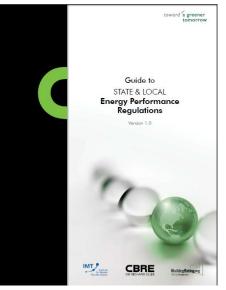
What's Next



2012:

- Second annual Policy Roundtable with ~25 states and cities in late February/early March
- Energy savings and job creation analysis on benchmarking and disclosure policy
- Policy development guidance and design report w/ model policy language
- U.S. DOE energy disclosure platform

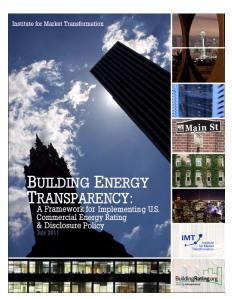


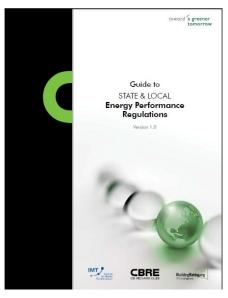


Resources



- IMT policy implementation framework www.buildingrating.org/Building_Energy_Transparency_Implementation_Report
- CB Richard Ellis/IMT regulatory guide www.cbre.com/USA/Sustainability/Envirometrics
- IMT/ICLEI Commercial Energy Policy Toolkit www.imt.org/commercialenergypolicytoolkit
- IMT/ICLEI RFA for free technical assistance
 www.icleiusa.org/climate_and_energy/energy-efficiency-resources 1/commercial-energy-policy-toolkit/apply-now-for-free-technical-assistance
- IMT's informal rating network To join, email: caroline@imt.org
- State & Local Energy Efficiency Action Network www1.eere.energy.gov/seeaction/resources.html#fact







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Thanks you for participating



We appreciate your feedback. Please take a moment to respond to the question below by typing your answer in the Q&A section of the GoToMeeting control panel on the right.

What information from this or any previous benchmarking webinars would you like more detail?